Date: Thu, 24 Mar 94 20:11:52 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #326
To: Info-Hams

Info-Hams Digest Thu, 24 Mar 94 Volume 94 : Issue 326

Today's Topics:

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 24 Mar 1994 22:36:42 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!pipex!uknet!
EU.net!sunic!news.funet.fi!nntp.hut.fi!vipunen.hut.fi!jsi@network.ucsd.edu
Subject: 10 GHz EME question
To: info-hams@ucsd.edu

> Is 46m dish any better than a 4m dish on 10 GHz EME ?

10 GHz EME with a big dish has been tried before. In June 1987 OH2TI, RC of

Helsinki University of Technology, together with OH2AV, RC of Nokia Corporation, put a serious effort to make the first ever 10 GHz EME contact with Goliardo Tomasetti, I4BER. Antennas used were 14m and 32m radiotelescopes in Helsinki and Bologna, respectively. At OH2TI, we had a 8W TWT while I4BER was running 1W. The result was a one-way QSO. I4BER heard us with a good signal but we didn't copy him. We had started, due to some delays in Bologna, well behind schedule and run soon out of time. At the same time we figured out that we had been listening him on a wrong frequency, Goliardo called us to tell that he had to go QRT. The radioastronomers wanted to have their antenna back to real research. Well, I thought that's exactly what we were doing ... ;-)

With some more time available it might has well been a two-way contact. Unfortunately, we never got a second chance because it turned out to be impossible to find a common time slot during the next months, both antennas being in intensive research use. A few months after our experiment we lost the 10 GHz EME band in Finland to "paying customers". So, that was the end of it. As everyone knows the W5s and W7s made the first ever 10 GHz EME QSO on Aug 1988, about a year after our test. This year it looks like we will get the band back (10.368 - 10.370 GHz), so who knows what will happen.

So, what kind of signals did we experience ? Well, our own echoes were strong and solid. Every single dash and dot was returned unchanged off the moon (for more than 30 mins). The signal was clean, not distorted like some of the Ws with smaller dishes have reported. Maybe this was due to the narrow beamwidth (0.17 degrees). It is hard to estimate the S/N but I would say it was around 10 dB. Theoretically our echoes should have been (with the NF 4.2 dB Rx) about 20 dB above noise. To refresh my memory I just listened the two tapes again. The first one contains OH2TI's echoes recorded by myself. The other one contains our echoes recorded by I4BER. On both tapes the signal is clean and solid. The rapid libration fading is there but it's not bad. On 432 MHz I have got used to much worse (with OH2PO's 16m dish, 3 deg bw).

A quick calculation shows that with same power and same Rx but a 4m dish our own echoes would have been 1 dB below the noise ! A 4m dish has a beamwidth of about 0.5 degrees, so this clearly proves that it pays off to have bigger antenna on transmit. In the case of VE3ONT things get trickier because a 46m dish has a much smaller beamwidth (0.05 deg) than the apparent moon diameter and a small dish has a beamwidth equal to or larger than 0.5 degrees. This is why VE3ONT will suffer from over 200 K moon temperature while the small station has cold sky behind the moon, and thus benefits on receive. Does VE3ONT's big gain compensate the lost reflection area ? I don't have the answer to this one. It seems to me that the optimum beamwidth is smaller than 0.5 degrees. How much smaller, I don't know.

I4BER was hearing his echoes clearly with 1W (68 dB, 0.07 deg). Assuming that the NF of his Rx was about the same than ours (I recall it was better), I4BER should have heard us 7 dB better than we heard our own echoes,

providing the under illumination effect was neglible. The tapes are hard to compare because mine was recorded with audiofilter on and the other tape was recorded without one. I would say however that the signal is stronger on my tape. Also, providing the under illumination didn't exist, I4BER should have heard his own echoes about 25 dB above noise with his 1W ! I don't think that was the case.

Jukka OH6DD   Internet: jsi@hut.fi

Date: 24 Mar 1994 22:36:27 GMT
From: ihnp4.ucsd.edu!galaxy.ucr.edu!library.ucla.edu!csulb.edu!nic-nac.CSU.net!
charnel.net.csuchico.edu!charnel!olivea!news.bu.edu!att-in!fnnews.fnal.gov!
usenet@network.ucsd.edu
Subject: Anyone gotten Dayton spaces yet?
To: info-hams@ucsd.edu

In article <2msbrn$491@gdls.com> turini@gdls.com (Bill Turini) writes:
>I've been patiently waiting, but have not heard from the Dayton folks
>about sale spaces. Nor have I heard on the local repeaters about anyone
>getting a reply. Has anyone out there gotten a space or any comments
>from the Dayton folks?
>
>
>Thanks
>
>Bill
>

I received my tickets and parking permit on 18 Mar. The cancelled check came in my bank statement on 20 Mar.

Regards,

Paul Kasley wa9vyb

Fermi National Accelerator Lab, Batavia, Illinois
kasley@chip.fnal.gov

Date: 24 Mar 1994 19:43:36 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!pipex!sunic!psinntp!psinntp!
news.boxhill.com!ariel!ken@network.ucsd.edu
Subject: CD-ROM QRZ! vs Buckmaster
To: info-hams@ucsd.edu

>> For the CD-ROM users out there, I was wondering if someone could give me
>> the pro and/or cons of these two CDs. I'm trying to find the best one
>> (obviously). I've seen QRZ! cd for $29.95 and the HamCall for $50.
>> Anyplaces I might be able to get them cheaper?
>> John W. Herndon - jwh@kaiwan.com
>
>I have QRZ? and HAMCALL. If it is amateur radio QTHs you need, then
>my HAMCALL is more comprehensive than my QRZ?. My QRZ only has US and
>Canadian QTHs but HAMCALL has many other countries. I keep saying *my*
>version as there may be updated versions by now.
>Russell Lee   G6GL   george@golflima.demon.co.uk

I have the QRZ! CDROM, and bought it specifically because the callsign
databases inside were not encrypted in any way.
The callsign databases are simply comma-separated one-line-per-call
text records.

I liked this because I'm using the call database on a UNIX (Sun)
system, and can easily write database massaging code in Perl.

Oh, and yes, QRZ! was significantly cheaper. I got mine mailorder
for $15 + shipping.
$50? I guess the Buck$master name is appropriate.

Can anyone comment regarding pros/cons of the HamCall product?

73 de Ken N2TIA

Perhaps this may sway your decision one way or another.

Date: 24 Mar 1994 19:08:07 GMT
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!howland.reston.ans.net!
news.intercon.com!psinntp!psinntp!psinntp!news.boxhill.com!ariel!
ken@network.ucsd.edu
Subject: FT-530 Receive Problem Followup
To: info-hams@ucsd.edu

leber@panther.warm.inmet.com (Thomas Leber) wrote:

>Last night, I started playing with the VHF and UHF VFOs simultaneously,
>and suddenly heard the same type of interference, but this time it
>was full scale, and it was coming in on the UHF side. A little experimentation
>indicated that for a given 2 meter frequency, the unit generated a spur at
>3.172845 times that frequency. Example: 145.13 generates 460.475. The noise is
>exactly like the weaker noise I hear in 2 meter, but it pegs the S meter.

For what it's worth, I can reproduce this symptom on my FT-530
exactly. A bit annoying, but I also like the HT a lot.

73

Ken Stamm N2TIA
(ken@boxhill.com)
BoxHill Systems Corporation
161 Avenue of the Americas
New York, NY 10013
Tel: (212)989-HILL (4455)
Fax: (212)989-6817

```
BBBB          H  H  i  ll  ll
B   B         H  H      l   l
BBBB  ooo x x HHHH ii   l   l
B   B o o  x  H  H  i   l   l
BBBB  ooo x x H  H iii lll lll
```

S y s t e m s C o r p o r a t i o n

Date: Thu, 24 Mar 1994 20:48:19 GMT
From: ihnp4.ucsd.edu!galaxy.ucr.edu!library.ucla.edu!agate!howland.reston.ans.net!
vixen.cso.uiuc.edu!usenet.ucs.indiana.edu!indyvax.iupui.edu!
medicine.dmed.iupui.edu!JAY@network.ucsd.edu
Subject: Grid Squares & Lat/Long
To: info-hams@ucsd.edu

Thank you for all the help. I must have written down the wrong figure because
I am actually at 86' not 89' longatude.

Thanks to everyone for their help! I'll try to be more careful next time.

Jay

>: Jay Sissom wrote:
>: >: Hello!
>: >
>: >: Lattitude: 39' 39.303 N
>: >: Longatude: 89' 10.550 W

>: >: When I feed these numbers into the programs, I get EM59JP. When I
>: >: look on the map, EM59 is in Illinois and I live in Indianapolis, IN.
>: >: Is the map wrong, or is the basic program wrong?
>[other responses deleted . . .]

>april's qst has an article describing how to generate grid squares. take a
>look.

>regards, richard kd6lwd

>rspear@sookit.jpl.nasa.gov
>all disclaimers apply

Date: Thu, 24 Mar 1994 22:20:42 GMT
From: telesoft!garym@uunet.uu.net
Subject: Grid Squares & Lat/Long
To: info-hams@ucsd.edu

In <2msdd6$ju8@nntpd.lkg.dec.com> wade@n1bwt.enet.dec.com (Paul Wade) writes:
>-I recently borrowed a GPS device to calculate my Latitude & Longitude.
>-Lattitude: 39' 39.303 N
>-Longatude: 89' 10.550 W

This is 3 degrees West of Indianapolis, about 180 nm. If you're in
Indianapolis (39.77N 86.16W) then the GPS device gave you the wrong numbers
or you wrote them down wrong.
--GaryM

Date: 24 Mar 1994 20:35:26 -0500
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!news.intercon.com!news1.digex.net!
access.digex.net!not-for-mail@network.ucsd.edu
Subject: Hamfest Listing
To: info-hams@ucsd.edu

I've been searching around for a listing of upcoming hamfests, and have
been unable to find one. So, I've decided to do the next best thing -
create my own.

My goal is to periodically post a comprehensive listing of upcoming
hamfests, for the entire US (if the list gets too large, it could be
broken up into regions).

This is where you all come in - I need for people to email me with
details of upcoming hamfests that they are aware of. The information I
need is:

The name of the hamfest, the location, the date/times, And anything else
pertinent (cost, name of contact, etc).

Please send the information to me at: cps@access.digex.net

Thanks,

Chris

Date: 25 Mar 94 00:07:19 GMT
From: news-mail-gateway@ucsd.edu
Subject: Info-Hams Digest V94 #325
To: info-hams@ucsd.edu

From: POSTMSTR @SSW
To: HCHOAGLAND @MRGATE
 IN%"Info-Hams @UCSD.EDU" @MRGATE @BV8500

     Author: IN%"Info-Hams@UCSD.EDU"
     Sender: IN%"INFO-HAMS @UCSD.EDU"@MRGATE@BV8500
     Subject: Info-Hams Digest V94 #325
     Message Class:

     Recipients:

     Profile Recipient(s):

          CCMAIL -RL636614 *RLMEYERING @CCMAIL @BIIVAX

The MAILbridge Server/DEC was unable to deliver mail
from Sender IN%"INFO-HAMS@UCSD.EDU"@MRGATE@BV8500.
Please contact your Soft-Switch E-Mail Administrator to register this user
in the Name Translate Directory.

Date: Thu, 24 Mar 1994 15:59:47 GMT
From: ihnp4.ucsd.edu!pacbell.com!att-out!nntpa!not-for-mail@network.ucsd.edu
Subject: Kenwood (TS-850) Computer Interface Info Wanted
To: info-hams@ucsd.edu

In article <hawley.764522745@aries>,
Chuck Hawley <hawley@aries.scs.uiuc.edu> wrote:
>adam@panix.com (Adam Epstein) writes:
>
>
>> A friend is interested in getting details about the computer
>>interface "box" used with the Kenwood TS-850. Has anybody built one
>>for themselves (rather than buying Kenwood's)? Does anybody have
>>schematics? I'm sure that recommendations of commercially available
>>software and other hints and kinks would be appreciated as well.

>>Email to me (adam@panix.com) and I'll forward your replies.
>
>> -Thanx
>> -Adam (N2DHH)
>The box is just opto isolators on the signal lines driven by and driving
>ttl to line driver level converters (5v to +/-10v). Look thru QST for an
>article.....it'll probably cost about the same if you do it right.
>Chuck Hawley KE9UW.
>

Check out my article in Feb. 93 QST "Everything You Always Wanted To Know About Computer-Controlling Modern Radios" (I didn't pick the title :). It has plans for a Kenwood interface that is opto-isolated and implements the handshaking lines as well as the data for complete compatibility.

I also still offer the parts kits listed at the end of the article. Prices are the same, ($47 for Kenwood kit, $44 for Icom/Yaesu/Ten-Tec) but the address is now:

 CW Technology
 7328 Timbercreek Court
 Reynoldsburg, OH 43068-1181

 COD Orders Only (add $5) at 800-547-7479

The kits include PCB and all board mounted parts. You provide case and 8-15V supply.

NOTE: ARRL has the PCB layouts and the parts are readily available - you do not have to buy anything from me.

E-mail if you need more info

--
   Wally Blackburn   Clinton-Gore - Socialist Leadership
   wrb@ccsitn.cb.att.com   for the 90s!
   Amateur Radio Station AA8DX   I'm the NRA.
      More people have died in Ted Kennedy's car than from my gun!

Date: 25 Mar 1994 03:24:29 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!wupost!bigfoot.wustl.edu!cec3!jlw3@network.ucsd.edu
Subject: Latest callsigns assigned list?
To: info-hams@ucsd.edu

Bill Northup (northup@hoop.sw.stratus.com) wrote:

: : I have not seen any postings recently on turnaround actual time.
: : A few months ago, there were many notes on here giving actual times.
: : Some were much sooner than reported by the FCC. I guess they were being
: : conservative in the recorded message.
: :
: : Milt, K9QZI
: :

: The last upgrade that I received (march 12) was 10 weeks.

OK, guys, I've now waited 91 ways--13 weeks, and have heard nothing. Should I 1) keep waiting, 2) call W5YI (I took it with them in dallas, and over spring break I called--before I could even say my name, they said to keep waiting; it was at 12 weeks then) again, or 3) call the FCC? Help me out; I'm getting impatient.

--jesse (call goes here)

Date: 24 Mar 1994 17:37:24 -0800
From: ihnp4.ucsd.edu!swrinde!sgiblab!barrnet.net!nntp.crl.com!crl2.crl.com!not-for-mail@network.ucsd.edu
Subject: Regency Radio
To: info-hams@ucsd.edu

I couldn't find a netnews group for commercial radio questions so... I'm looking for someone with a schematic on a Regency(Realm) H256B 16 Channel Scan VHF Transvr. I have a transistor Q105 in the control panel bad, it is marked Motorola but the number must be for Realm only...

Thanx for the help ....reach me e-mail

Mike Davis
Atlanta, Ga.

tyton@crl.com

Date: Thu, 24 Mar 1994 14:06:25 -0500
From: ihnp4.ucsd.edu!library.ucla.edu!agate!howland.reston.ans.net!news.intercon.com!psinntp!psinntp!psinntp!pbs.org!jernandez.pbs.org!user@network.ucsd.edu
Subject: Scanner Laws in Northern VA?
To: info-hams@ucsd.edu

 Excuse the interruption. There is a law against carring scanners in

Northern VA (and I am sure other states like NJ) unless you have a permit.
These permits are issued to volunteer rescue workers primarily. My question
is, "Are licensed Amateur radio operators excused from getting the permit?"
Thank you in advance.

John J. Ernandez

Date: 24 Mar 1994 18:25:07 -0600
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!not-for-mail@network.ucsd.edu
Subject: Software-general exam
To: info-hams@ucsd.edu

: IF anyone knows of the existance of a shareware/freeware program that
: presents random questions from the current General exam (a practive exam
: program), please let me know where I might download a copy.
: Thanks,
: Joe Coles
: jcoles@pubcon.fort-worth.tx.us
: KC5BSK

The following two anonymous ftp sites have question pools for ham radio question
pools for all classes.

1). ftp.cs.buffalo.edu:

 "/pub/ham-radio/"
quest-pool-advance, quest-pool-general...etc. in TEXT format.

2). wuarchive.wustl.edu
  "/systems/ibmpc/msdos/hamradio"
 ext21.zip, adv21.zip, ... nov22.zip which run on IBM PC.

73

D.J. Wang E-mail: djwang@sneezy.biophys.upenn.edu
MMRRCC, Radiology Department, Univ. of Pennsylvania
418 Service Dr. Basement, Blockley Hall
Philadelphia, PA 19104
(>> Seven weeks and counting.....)
ive.wustl.edu
  "/systems/ibmpc/msdos/hamradio"
 ext21.zip, adv21.zip, ... nov22.zip which run on IBM PC.

73

D.J. Wang E-mail: djwang@sneezy.biophys.upenn.edu

MMRRCC, Radiology Department, Univ. of Pennsylvania
418 Service Dr. Basement, Blockley Hall
Philadelphia, PA 19104
(>> Seven weeks and counting.....................)

Date: Thu, 24 Mar 1994 14:50:27 GMT
From: ihnp4.ucsd.edu!swrinde!emory!wa4mei!ke4zv!gary@network.ucsd.edu
Subject: Voice mail on a repeater?
To: info-hams@ucsd.edu

In article <bote.764487800@access3> bote@access.digex.net (John Boteler) writes:
>
>Is voice mail something that many hams want on their
>favorite repeater?

I don't. I don't even want a phonepatch on the repeater. Make that I
especially don't want a phonepatch on a repeater. I want a repeater
to be as unobtrusive as possible, simply a bent pipe to extend my
radio range. It's a gathering spot for conversation, not a paging
service, an answering machine, or a substitute for a cellular phone.

Gary

--
Gary Coffman KE4ZV | You make it, | gatech!wa4mei!ke4zv!gary
Destructive Testing Systems | we break it. | uunet!rsiatl!ke4zv!gary
534 Shannon Way | Guaranteed! | emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244 | |

Date: Fri, 25 Mar 1994 00:29:49 GMT
From: ihnp4.ucsd.edu!galaxy.ucr.edu!library.ucla.edu!csulb.edu!csus.edu!
netcom.com!rbloom@network.ucsd.edu
Subject: want Propagation Algorithm
To: info-hams@ucsd.edu

I am trying to obtain material originally written by the BBC
external services: Propagation algorithms for HF, and a
model of the Ionosphere, done by Fricker. I have some listings
but need the original "science documents" that explain
(otherwise, one has no hope of eliminating errata) them.

Any help appreciated.
Ron
WA6MQC

Date: Thu, 24 Mar 1994 20:08:11 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!news.intercon.com!psinntp!psinntp!
psinntp!arrl.org!zlau@network.ucsd.edu
To: info-hams@ucsd.edu

References <2mn2rd$ol0@vixen.cso.uiuc.edu>, <1994Mar23.162557.7558@arrl.org>,
<1994Mar24.030016.23680@ke4zv.atl.ga.us>
Subject : Re: RF and AF speech processors. Was: FT-990 vs TS-850

Gary Coffman (gary@ke4zv.atl.ga.us) wrote:
: In article <1994Mar23.162557.7558@arrl.org> zlau@arrl.org (Zack Lau (KH6CP))
writes:

: >could prevent this effect? Even before DSP, didn't people use split
: >band audio processing to reduce the content of harmonics?

: Sure, and still do in broadcasting, but it isn't either easy or cheap,
: and the results still aren't that great. You have to process in 1/3
: octave bands, and there are a lot of them at the lower end of the
: voice spectrum. You also have to adopt a control strategy that doesn't
: alter the amplitude relationships between octaves too much, or the
: time relationships *at all*, otherwise you screw up the frequency
: and phase response on a dynamic basis. That sounds *really* bad,
: worse than just harmonic distortion. Broadcast engineers seem to
: spend half their lives tinkering with the audio processing equipment.
: It's really easier to modulate, limit at RF, filter, and demodulate
: again rather than process properly at AF.

So why don't these broadcast engineers just use RF
modulator/clipper/demodulators? :-). There were probably
others, but even QST published "Audio Processor Using
RF Clipping" back in February, 1981. The author generated
a SSB signal using the phasing method and demodulated it
after clipping.

--
Zack Lau KH6CP/1   2 way QRP WAS
                           8 States on 10 GHz
Internet: zlau@arrl.org   10 grids on 2304 MHz

Date: Thu, 24 Mar 1994 23:26:58 GMT

From: ihnp4.ucsd.edu!usc!yeshua.marcam.com!news.kei.com!world!drt@network.ucsd.edu
To: info-hams@ucsd.edu

References <JAY.12.2D905A2E@medicine.dmed.iupui.edu>, <Cn538t.Ht3@world.std.com>,
<n1gakCn6KvE.MC9@netcom.com>
Subject : Re: Grid Squares & Lat/Long

Scott Statton (n1gak@netcom.com) wrote:
X-Newsreader: TIN [version 1.2 PL2]

: Jay Sissom wrote:
: >: Hello!
: >
: >: Lattitude: 39' 39.303 N
: >: Longatude: 89' 10.550 W

: >: When I feed these numbers into the programs, I get EM59JP. When I
: >: look on the map, EM59 is in Illinois and I live in Indianapolis, IN.
: >: Is the map wrong, or is the basic program wrong?

: And Dave Tucker Replies:
: >
: >Well, the World Almanac says the coordinates for Indianapolis are
: >
: >39.7678 N
: >86.1628 W
: >
: >So I'd say that, gadget or no gadget, your Lat/Long figures are wrong.

: Well -- seeing as 39.65505N x 86.1758 is just a few miles from the
: figure in the World Almanac, I'd guess that the original article has a
: typo.

Right, it sure could be a flipped "6". More likely than a typo is a
transcription error from the GPS device, since the coordinates given in
the original article really are in Illinois.

-drt

|David R. Tucker KG2S   drt@world.std.com|

End of Info-Hams Digest V94 #326
****
****